

Data Sheet

Fujitsu PRIMERGY BX900 S1 Blade Server

The Dynamic Cube

Fujitsu PRIMERGY BX Blade Servers meet all the requirements of medium-sized companies as well as the branches and data centers of large companies, especially with their comprehensive offer of services and solutions. They offer a clever alternative in providing an IT infrastructure with high levels of efficiency, flexibility and business continuity. The PRIMERGY BX system family is designed so that the chassis components can be used throughout the family. This means that changing business requirements can be met quickly and easily. Servers, storage and connection blades can be added without any additional cabling effort or administration software. Its modular design gives the PRIMERGY BX Blade Servers considerable advantages, such as high density as well as reliable and dynamic 24x7 operations. The PRIMERGY BX Blade Servers are the ideal choice for today's and tomorrow's data center solutions where reliability, performance and connectivity are important requirements. They can be used for a wide range of applications, starting with web or terminal servers up to high-performance databases. And as business requirements grow, the PRIMERGY BX Blade Servers can be adapted to meet individual requirements and fulfill such needs in a suitable manner.

PRIMERGY BX900 S1

The PRIMERGY BX900 the Dynamic Cube is a complete Dynamic Server infrastructure in a single chassis. The Blade Server can be dynamically adapted to various IT requirements: you reduce costs and your IT becomes more flexible. The PRIMERGY BX900 has space for up to 18 server and storage blades in a 10U chassis. This is the leader

in its class for density and multiple application services in a compact form factor. Our innovative and registered Cool-safe™ cooling concept, combined with 94% efficient, 80Plus Platinum certified power supplies and the embedded ServerView Power Management software, ensures real dynamic power & cooling which helps you to save money. Dual-socket server blades, equipped with the latest CPUs from the Intel® Xeon® processor 5500 and 5600 series, large memory capacity and state-of-the-art I/O performance predestine the PRIMERGY BX900 for every scenario of application virtualization. Quad-socket server blades with the extremely reliable and performant CPUs of the Intel® Xeon® processor 7500 series extend the range of uses to the operation of business-critical ERP applications and large database management systems. Your investment is protected when your business grows, as up to four BX900 chassis units can be operated in a common management and I/O administration domain.



Features and Benefits

| Main Features | Benefits |
|--|--|
| <p>Dynamic Power & Cooling</p> <ul style="list-style-type: none"> Using our Cool-safe™ cooling concept, combined with the new 80Plus Platinum certified power supply units (94% efficiency) and the embedded ServerView Power Management software, it ensures real dynamic power & cooling. | <ul style="list-style-type: none"> Save energy costs |
| <p>Dynamic Virtualization</p> <ul style="list-style-type: none"> Equipped with the Intel® Xeon® processor 5600 and 7500 series, very large memory capacities and state of the art I/O performance, the PRIMERGY BX900 is optimized for any virtualization scenario on the one hand, and for resource hungry applications on the other hand. | <ul style="list-style-type: none"> Easily deploy more or larger virtual and physical machines than ever before and in this way increase your IT performance |
| <p>Dynamic High Availability</p> <ul style="list-style-type: none"> Due to its fully redundant design (MMBs, NICs, Fans, PSUs) and in combination with ServerView Resource Coordinator Virtual Edition (RCVE) and the ServerView Resource Orchestrator (ROR), the PRIMERGY BX900 can completely protect itself against any possible failure; at the same time it excels with the fastest automatic recovery, and with an allocation of its available resources to services, according to requirements. | <ul style="list-style-type: none"> Best availability, most effective server protection and the agility to adapt to changing requirements |
| <p>Dynamic Scalability</p> <ul style="list-style-type: none"> With space for up to 18 Server Blades, 8 Connection Blades, 6 power supply units and 2 management boards in a 10U high chassis, the PRIMERGY BX900 has the highest density. Combined with chassis interconnectivity the system allows the most flexible scaling. | <ul style="list-style-type: none"> Complete investment protection and flexible growth scenarios. |

Technical details

| PRIMERGY BX900 S1 | |
|--|---|
| Housing type | Rack Rack |
| Enclosure | |
| System unit type | 10 U chassis for 19-inch rack |
| Front bays | 18 half height or 9 full height bays for server or storage blades |
| Midplane | High speed midplane with 4 redundant fabrics |
| Rear bays | 8 x for Connection Blades (2 Connection Blades per fabric) 6 x for PSU modules |
| Management Blades | 1x hot-plug Management Blade as standard, redundant Management Blade as option |
| Fan configuration | Up to 3 hot plug, redundant fan modules |
| Fan notes | 2 fan units per module, 2 x 2 fans per unit; modules either part of PSU modules or independent components |
| Power supply configuration | Up to 6x hot-plug power supply module, 3x as minimum configuration (4th to 6th power supply module necessary for redundancy and depending on system configuration) |
| Operating panel | |
| Operating buttons | On/off switch ID button |
| Status LEDs | Power (amber / green) System status (orange) Identification (blue) |
| Service display | ServerView Local Service Display for Blade (LSB) |
| Management Blade | |
| Type of Unit | BX900 MMB S1 |
| LAN / Ethernet (RJ-45) | 2 x 1Gb Ethernet |
| Service LAN (RJ45) | Dedicated Service LAN port for MMB (1Gb Ethernet) |
| Serial 1 (9-pin) | 1 x RS-232-C |
| USB ports | 2 x (at rear side of the system) |
| Dimensions / Weight | |
| Dimensions (W x D x H) | 483 mm (Bezel) / 445mm (Body) x 778 x 438 |
| Height Unit Rack | 10 U |
| 19" rackmount | Yes |
| Weight | Up to 200 kg |
| Weight notes | Fully assembled Actual weight may vary depending on configuration |
| Rack integration kit | Included |
| Electrical values | |
| Max. input of single power supply | 3200 W / 1600 W (240 V / 100 V) |
| Rated voltage range | 100 V - 240 V |
| Rated frequency range | 47 Hz - 63 Hz |
| Rated current max. | 65A / 29A (100 V / 240 V) |
| Electrical value notes | Active power max. value depends on system configuration. For details see Power Configuration Tool. |
| Environmental | |
| Operating ambient temperature | 5 - 35°C |
| Operating relative humidity | 10 - 85 % (non condensing) |
| Operating environment | FTS 04230 Guideline for Data Center (installation locations) |
| Operating environment Link | http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe |
| Noise emission | Measured according to ISO 7779 and declared according to ISO 9296 |

Environmental

| | |
|-------------------------------|----------------------------|
| Sound pressure (LpAm) | up to 64 dB(A) (operating) |
| Sound power (LWAd; 1B = 10dB) | 86dB (operating) |

Compliance

| | |
|-----------------------|---|
| Germany | GS |
| Europe | CE Class A * |
| USA/Canada | CSAc/us ULc/us FCC Class A |
| Global | CB RoHS WEEE |
| Japan | VCCI Class A + JIS 61000-3-2 |
| Australia/New Zealand | C-Tick |
| Taiwan | BSMI |
| Compliance notes | There is general compliance with the safety requirements of all European countries and North America. National approvals required in order to satisfy statutory regulations or for other reasons can be applied for on request. * Warning: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures. |
| Compliance link | http://sp.ts.fujitsu.com/sites/certificates/ |

Server and Storage Blades pluggable into system unit front side

| Product Model name | Product Type | Processor quantity support | Max. number per BX unit | Memory slots total | Supported capacity RAM (max.) |
|--------------------|----------------------------------|---|--|--------------------|-------------------------------|
| PRIMERGY BX920 S2 | Dual Socket Server Blade (Intel) | 1 - 2 http://docs.ts.fujitsu.com/dl.aspx?id=cfd1622e-9fae-419b-ad1c-91f78c9f93e7 | 18 | 9 | 288 GB |
| PRIMERGY BX922 S2 | Dual Socket Server Blade (Intel) | 1 - 2 http://docs.ts.fujitsu.com/dl.aspx?id=cb2281f2-b794-422b-aa87-a62dfef7914c | 18 | 12 | 192 GB |
| PRIMERGY BX924 S2 | Dual Socket Server Blade (Intel) | 2 http://docs.ts.fujitsu.com/dl.aspx?id=43070323-fed9-4cfb-83f5-f791be68994a | 18 | 18 | 384 GB |
| PRIMERGY BX960 S1 | Quad Socket Server Blade (Intel) | 2 or 4 http://docs.ts.fujitsu.com/dl.aspx?id=f0e1190f-1a96-4a40-9cf4-29ca90e08c24 | 9 | 32 | 512 GB |
| PRIMERGY SX910 S1 | Storage Blade Tape | | 6 http://docs.ts.fujitsu.com/dl.aspx?id=cc5ba5c8-2c98-4647-b585-db5890f9243c | | |
| PRIMERGY SX940 S1 | Storage Blade Disk | | 6 http://docs.ts.fujitsu.com/dl.aspx?id=cabbdb01-8a40-44dd-af4d-50bc074c0ec8 | | |
| PRIMERGY SX960 S1 | Storage Blade Disk | | 2 http://docs.ts.fujitsu.com/dl.aspx?id=489d2a0c-81f1-4d3e-aaa3-df55ac446930 | | |
| PRIMERGY SX980 S1 | Storage Blade Disk | | 6 http://docs.ts.fujitsu.com/dl.aspx?id=b4de3482-a07c-4cda-8f9c-de4e3869291b | | |

Connection Blades (CB) pluggable into system unit rear side

| Connection type | Down-link ports | Up-link ports | Max. number per BX unit |
|-------------------------------|------------------|-----------------------------------|--------------------------------|
| Eth Pass Thru 10Gb 18/18 | 18 x 1/10 Gb Eth | 18 x 1/10 Gb (SFP/SFP+/Twinax) | 6 (CB Slot 1/2 3/4 5/6) |
| Eth Switch/IBP 10Gb 18/8 | 18 x 10 Gb Eth | 8 x 10 Gb (SFP+) | 6 (CB Slot 1/2 3/4 5/6) |
| Eth Switch/IBP 1Gb 18/6 | 18 x 1 Gb Eth | 6 x 1 Gb (RJ45) | 8 (CB Slot 1/2 3/4 5/6 7/8) |
| Eth Switch/IBP 1Gb 36/12 | 36 x 1 Gb Eth | 8 x 1 Gb (RJ45), 4 x 1 Gb (SFP) | 8 (CB Slot 1/2 3/4 5/6 7/8) |
| Eth Switch/IBP 1Gb 36/8+2 | 36 x 1 Gb Eth | 8 x 1 Gb (RJ45), 2 x 10 Gb (SFP+) | 8 (CB Slot 1/2 3/4 5/6 7/8) |
| FC Pass Thru 8Gb 18/18 | 18 x 8 Gb FC | 18 x 4/8 Gb (SFP/SFP+) | 4 (CB Slot 3/4 5/6) |
| FC Switch 8Gb Brocade 14 Port | 18 x 8 Gb FC | 8 x 4/8 Gb (SFP/SFP+) | 4 (CB Slot 3/4 5/6) |

Connection Blades (CB) pluggable into system unit rear side

| Connection type | Down-link ports | Up-link ports | Max. number per BX unit |
|--|-----------------|-----------------------|----------------------------|
| FC Switch 8Gb Brocade 26 Port | 18 x 8 Gb FC | 8 x 4/8 Gb (SFP/SFP+) | 4 (CB Slot 3/4 5/6) |
| FC Switch 8Gb Brocade 26 Port Enterprise | 18 x 8 Gb FC | 8 x 4/8 Gb (SFP/SFP+) | 4 (CB Slot 3/4 5/6) |
| IB Switch 40Gb 18/18 | 18 x 40 Gb IB | 18 x 40 Gb (QSFP) | 3 (CB Slot 3/4 5/6 7/8) |
| SAS Switch 6Gb 18/6 | 18 x 6 Gb SAS | 6 x 6 Gb SAS | 1 (CB Slot 5) |

Warranty

| | |
|---|---|
| Standard Warranty | 3 years |
| Service level | On-site Service (depending on country) |
| Maintenance and Support Services - the perfect extension | |
| Recommended Service | 7x24, Onsite Response Time: 4h - For locations outside of EMEA please contact your local Fujitsu partner. |
| Service Lifecycle | 5 years |
| Service Weblink | http://ts.fujitsu.com/Supportservice |

More information

Fujitsu platform solutions

In addition to Fujitsu PRIMERGY BX900 S1, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Dynamic Infrastructures

With the Fujitsu Dynamic Infrastructures approach, Fujitsu offers a full portfolio of IT products, solutions and services, ranging from clients to datacenter solutions, Managed Infrastructure and Infrastructure as-a-Service. How much you benefit from Fujitsu technologies and services depends on the level of cooperation you choose. This takes IT flexibility and efficiency to the next level.

Computing Products

http://de.fujitsu.com/it_trends/dynamic_infrastructures/products/index.html

Software

www.fujitsu.com/software/

More information

Learn more about Fujitsu PRIMERGY BX900 S1, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.
<http://ts.fujitsu.com/Primergy>

Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment. Using our global know-how, we aim to resolve issues of environmental energy efficiency through IT. Please find further information at <http://www.fujitsu.com/global/about/environment/>



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2011-10-27 CE-EN

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